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CLAIMS

1. A semiconductor device comprising:

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a thin film integrated circuit comprising the thin film transistor, over a substrate;

an antenna,

wherein the thin film transistor comprises a pattern formed by a droplet discharging method or a printing method; and

wherein the thin film integrated circuit is electrically connected to the antenna.

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- 2. The semiconductor device according to claim 1, wherein the pattern is at least one of a gate electrode, a source electrode, a drain electrode, and a pixel electrode, a source wiring and a drain wiring.
- 3. The semiconductor device according to claim 1, wherein the antenna is formed over the thin film transistor.
- The semiconductor device according to claim 1, wherein the thin film integrate circuit is formed over any one of a glass substrate such as a barium
 borosilicate glass, an alumino borosilicate glass, a quartz, a stainless, and a synthetic resin.
 - 5. The semiconductor device according to claim 1, wherein the thin film transistor comprises a non-crystalline semiconductor film.

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- 6. The semiconductor device according to claim 1, wherein the thin film integrated circuit is electrically connected to the antenna by a wire bonding method.
- 7. The semiconductor device according to claim 1, wherein the antenna comprises any one of Ag, Al, Au, Cu, and Pt.

- 8. A card comprising the semiconductor device according to claim 1.
- 9. A tag comprising the semiconductor device according to claim 1.
- 10. A semiconductor device comprising:

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a thin film integrated circuit comprising the thin film transistor, over a substrate;

an antenna,

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wherein the thin film integrated circuit comprises a pattern formed by a droplet discharging method or a printing method,

wherein the thin film integrated circuit is electrically connected to the antenna, and

wherein the antenna is provided so as to sandwich the thin film integrated circuit.

- 11. The semiconductor device according to claim 10, wherein the antenna is provided symmetrically through the thin film integrated circuit.
- 12. The semiconductor device according to claim 10, wherein the pattern is at least one of a gate electrode, a source electrode, a drain electrode, and a pixel electrode, a source wiring and a drain wiring.
- 13. The semiconductor device according to claim 10, wherein the antenna is formed over the thin film transistor.
- 14. The semiconductor device according to claim 10, wherein the thin film integrate circuit is formed over any one of a glass substrate such as a barium borosilicate glass, an alumino borosilicate glass, a quartz, a stainless, and a synthetic resin.

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- 15. The semiconductor device according to claim 10, wherein the thin film transistor comprises a non-crystalline semiconductor film.
- 16. The semiconductor device according to claim 10, wherein the thin film integrated circuit is electrically connected to the antenna by a wire bonding method.
- 17. The semiconductor device according to claim 10, wherein the antenna comprises any one of Ag, Al, Au, Cu, and Pt.
 - 18. A card comprising the semiconductor device according to claim 10.
 - 19. A tag comprising the semiconductor device according to claim 10.
- 20. A semiconductor device comprising:

 a thin film integrated circuit comprising a thin film transistor, over a substrate;

 an antenna formed over a flexible substrate,
 - wherein the thin film integrated circuit comprises a pattern formed by a droplet discharging method or a printing method,
 - wherein the thin film integrated circuit is electrically connected to the antenna, and
 - wherein the substrate is folded to sandwich the thin film integrated circuit therebetween.
- 21. The semiconductor device according to claim 20, wherein the pattern is at least one of a gate electrode, a source electrode, a drain electrode, and a pixel electrode, a source wiring and a drain wiring.
- 22. The semiconductor device according to claim 20, wherein the thin film integrate circuit is formed over any one of a glass substrate such as a barium

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borosilicate glass, an alumino borosilicate glass, a quartz, a stainless, and a synthetic resin.

- 23. The semiconductor device according to claim 20, wherein the thin film transistor comprises a non-crystalline semiconductor film.
 - 24. The semiconductor device according to claim 20, wherein the thin film integrated circuit is electrically connected to the antenna by a wire bonding method.
- 25. The semiconductor device according to claim 20, wherein the antenna comprises any one of Ag, Al, Au, Cu, and Pt.
 - 26. A card comprising the semiconductor device according to claim 20.
 - 27. A tag comprising the semiconductor device according to claim 20.
 - 28. A method for manufacturing a semiconductor device comprising:

 forming a thin film integrated circuit by a droplet discharging method or a
 printing method over a first substrate;
 - forming an antenna over a second substrate; and
 attaching the first substrate to the second substrate so that the thin film
 integrated circuit is electrically connected to the antenna.
- 29. The method for manufacturing a semiconductor device according to claim
 25 28, wherein the antenna is formed by a sputtering method, a droplet discharging method, a printing method, a plating method, a photolithography method, or a vapor deposition method, using a metal mask.
- 30. The method for manufacturing a semiconductor device according to claim 28, wherein the antenna is formed by a sputtering method, a droplet discharging method,

a printing method, a plating method, a photolithography method, or a vapor deposition method using a metal mask, and the antenna is pressed.

31. The method for manufacturing a semiconductor device according to claim 5 28, the method further comprising:

forming a metal film and an oxide film containing silicon over the metal film, between the first substrate and the thin film integrated circuit;

forming a metal oxide film comprising a metal included in the metal film on a surface of the metal film; and

separating the first substrate at an interface between the oxide and the metal film or an interface between the metal oxide film and the oxide film containing silicon.

32. A method for manufacturing a semiconductor device comprising:

forming a thin film integrated circuit by a droplet discharging method or a printing method over a first substrate in at least one step;

forming an antenna over a second substrate having flexibility; and

folding the second substrate to sandwich the thin film integrated circuit therebetween so that the thin film integrated circuit is electrically connected to the antenna.

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33. The method for manufacturing a semiconductor device according to claim 32, wherein the antenna is formed by a sputtering method, a droplet discharging method, a printing method, a plating method, a photolithography method, or a vapor deposition method, using a metal mask.

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34. The method for manufacturing a semiconductor device according to claim 32, wherein the antenna is formed by a sputtering method, a droplet discharging method, a printing method, a plating method, a photolithography method, or a vapor deposition method using a metal mask, and the antenna is pressed.

35. The method for manufacturing a semiconductor device according to claim 32, the method further comprising:

forming a metal film and an oxide film containing silicon over the metal film, between the first substrate and the thin film integrated circuit;

forming a metal oxide film comprising a metal included in the metal film on a surface of the metal film; and

separating the first substrate at an interface between the oxide and the metal film or an interface between the metal oxide film and the oxide film containing silicon.

36. A method for manufacturing a semiconductor device comprising:

forming a thin film integrated circuit by a droplet discharging method or a printing method over a first substrate in at least one step;

forming an antenna over a second substrate;

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attaching the first substrate to the second substrate so that the thin film integrated circuit is electrically connected to the antenna; and

after attaching the first substrate to the second substrate, separating the first substrate from the thin film integrated circuit.

- 37. The method for manufacturing a semiconductor device according to claim 36, wherein the antenna is formed by a sputtering method, a droplet discharging method, a printing method, a plating method, a photolithography method, or a vapor deposition method, using a metal mask.
- 38. The method for manufacturing a semiconductor device according to claim
 36, wherein the antenna is formed by a sputtering method, a droplet discharging method, a printing method, a plating method, a photolithography method, or a vapor deposition method using a metal mask, and the antenna is pressed.
- 39. The method for manufacturing a semiconductor device according to claim 36, the method further comprising:

forming a metal film and an oxide film containing silicon over the metal film, between the first substrate and the thin film integrated circuit;

forming a metal oxide film comprising a metal included in the metal film on a surface of the metal film; and

separating the first substrate at an interface between the oxide and the metal film or an interface between the metal oxide film and the oxide film containing silicon.

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40. A method for manufacturing a semiconductor device comprising:

forming a thin film integrated circuit by a droplet discharging method or a printing method over a first substrate;

attaching a second substrate onto the thin film integrated circuit; separating the first substrate from the thin film integrated circuit; forming an antenna over a third substrate; and

attaching the second substrate to the third substrate so that the thin film integrated circuit is electrically connected to the antenna.

- 41. The method for manufacturing a semiconductor device according to claim 40, wherein the antenna is formed by a sputtering method, a droplet discharging method, a printing method, a plating method, a photolithography method, or a vapor deposition method, using a metal mask.
- 42. The method for manufacturing a semiconductor device according to claim 40, wherein the antenna is formed by a sputtering method, a droplet discharging method, a printing method, a plating method, a photolithography method, or a vapor deposition method using a metal mask, and the antenna is pressed.
 - 43. The method for manufacturing a semiconductor device according to claim 40, the method further comprising:

forming a metal film and an oxide film containing silicon over the metal film,
between the first substrate and the thin film integrated circuit;

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forming a metal oxide film comprising a metal included in the metal film on a surface of the metal film; and

separating the first substrate at an interface between the oxide and the metal film or an interface between the metal oxide film and the oxide film containing silicon.

44. A method for manufacturing a semiconductor device comprising:

forming a thin film integrated circuit by a droplet discharging method or a printing method over a first substrate;

forming an antenna over the thin film integrated circuit;

attaching the first substrate to the second substrate so that the thin film integrated circuit is electrically connected to the antenna; and

separating the first substrate from the thin film integrated circuit.

- 45. The method for manufacturing a semiconductor device according to claim
 44, wherein the antenna is formed by a sputtering method, a droplet discharging method, a printing method, a plating method, a photolithography method, or a vapor deposition method, using a metal mask.
- 46. The method for manufacturing a semiconductor device according to claim
 44, wherein the antenna is formed by a sputtering method, a droplet discharging method, a printing method, a plating method, a photolithography method, or a vapor deposition method using a metal mask, and the antenna is pressed.
- 47. The method for manufacturing a semiconductor device according to claim
 44, the method further comprising:

forming a metal film and an oxide film containing silicon over the metal film, between the first substrate and the thin film integrated circuit;

forming a metal oxide film comprising a metal included in the metal film on a surface of the metal film; and

separating the first substrate at an interface between the oxide and the metal

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film or an interface between the metal oxide film and the oxide film containing silicon.